Listing of Claims

Claims 1-23. (Canceled).

Claim 24. (Withdrawn): A cell-free preparation of a therapeutically suitable glutaminase which is free of *Pseudomonas* endotoxin.

Claim 25. (Withdrawn): The preparation of claim 24 wherein said glutaminase is a *Pseudomonas* glutaminase.

Claim 26. (Withdrawn): The preparation of claim 24 wherein said glutaminase is a *Pseudomonas 7A* glutaminase.

Claim 27. (Withdrawn): The preparation of claim 24, which is free of non-glutaminase *Pseudomonas* proteins.

Claim 28. (Withdrawn): The preparation of Claim 24, which is made by the process of:

culturing a recombinant microorganism which comprises a nucleotide sequence that codes for a therapeutically suitable glutaminase; and

collecting said therapeutically suitable glutaminase produced by said microorganism.

Claim 29. (Withdrawn): The preparation of claim 24 wherein said glutaminase has the sequence shown in SEQ ID NO: 2.

Claim 30. (Withdrawn): The preparation of claim 26 which has an initial methionine preceding the initial lysine of mature glutaminase.

Claims 31-46. (Canceled).

Claim 47. (Withdrawn): The preparation of claim 29, wherein said glutaminase is encoded by the nucleotide sequence of SEQ ID NO:1.

Claim 48. (Withdrawn): The preparation of claim 24 wherein said glutaminase has a K_m of 10^{-6} to 10^{-4} M for its reactants and remains active in human sera.

Claim 49. (Withdrawn): The preparation of claim 24, wherein said microorganism is a bacterium.

Claim 50. (Withdrawn): The preparation of claim 49, wherein said microorganism is *E. coli*.

Claim 51. (Previously Presented): A method of producing a therapeutically suitable glutaminase comprising:

culturing a recombinant microorganism which comprises a nucleotide sequence that codes for a therapeutically suitable glutaminase; and

collecting said therapeutically suitable glutaminase produced by said microorganism.

Claim 52. (Previously Presented): A method according to claim 51, wherein said microorganism is a bacterium.

Claim 53. (Previously Presented): A method according to claim 52, wherein said microorganism is *E. coli*.

Claim 54. (Previously Presented): A method according to claim 51, wherein said nucleotide sequence encodes the protein of SEQ ID NO: 2.

Claim 55. (Previously Presented): A method according to claim 54, wherein said protein is encoded by the nucleotide sequence of SEQ ID NO: 1.

Claim 56. (Previously Presented): A method according to claim 51 wherein said glutaminase has a K_m of 10^{-6} to 10^{-4} M for its reactants and remains active in human sera.

Claim 57. (Previously Presented): A method according to claim 51, wherein said glutaminase is a *Pseudomonas* glutaminase.